

a storage disk having two recording faces, each recording face storing
position signals;

a plurality of heads that read information from the said storage disk, one
of the heads being a reference head, each head reading information from a different recording
face of said storage disk;

an actuator that moves said heads; and

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a control circuit that positions said heads based on the position signal
read from said recording face of said storage disk, by using a selected head, said method
comprising:

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a step of synchronizing a time of a detection signal for detecting said
position signal with a time of said position signal read by said selected head to which
switching is directed, in response to a head switching cue; and

a step of reading said position signal from an output signal of said
switched and selected head in response to said synchronized detection signal and positioning
said switched head according to said read position signal,

wherein said synchronizing step comprises:

a step of determining a time for reading said position signal from said
output signal of said switched head, in response to said head switching cue; and

a step of synchronizing the time of said detection signal with said
determined time,

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~~and wherein said determining step comprises:~~

a step of reading a first discrepancy time between said reference head and a present head, and reading a second discrepancy time between said reference head and said switched head; and

a step of calculating the time difference between said first and second discrepancy times to determine said time.

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~~8. (Twice Amended) A head positioning control device for a storage disk~~
apparatus, comprising:

a storage disk having two recording faces, each recording face storing position signals;

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a plurality of heads that read information from the said storage disk, one of said reference heads being a reference head, each head reading information from a different recording face of said storage disk;

an actuator that moves said heads; and

a control circuit that positions said heads based on the position signal read from said recording face of said storage disk, by using a selected head,

wherein said control circuit comprises:

a synchronization circuit that, in response to a head switching cue, synchronizes the time of a detection signal for detecting said position signal with the time of

~~the position signal read by said selected head to which switching is directed, and~~

a processing circuit that, in response to said synchronized detection signal, reads the position signal from an output signal of said selected head and, in response to the read position signal, positions the heads,

wherein said synchronization circuit comprises:

a memory for storing a discrepancy time between said reference head and each said head; and

a circuit for determining a time for reading said position signal from said output signal of a said selected head to which switching is directed, in response to said head switching cue, and synchronizing the time of said detection signal with said determined time,

and wherein said circuit reads a first discrepancy time between said reference head and a present head and a second discrepancy time between said reference head and said switched and selected head; and calculates the time difference between said first and second discrepancy times to determine said time.

REMARKS

Attached hereto is a marked-up version of the changes made to the claims by the current amendment, captioned "Version with markings to show changes made."

Claims 1 and 8 have been amended to better define the present invention, as requested by the examiner. The "position signal" defined in the claims covers the servo signal described in the specification, and the "detection signal" defined in the claims covers